

§ 56.85-15

band must extend at least 1 inch beyond the weld joining the branch.

(13) 0.30 C. max applies to specified ladle analysis.

(14) 600 °F maximum interpass temperature.

(15) Welding on P-3, P-4, and P-5 with 3 Cr max. may be interrupted only if—

(i) At least $\frac{3}{8}$ inch thickness of weld is deposited or 25 percent of welding groove is filled, whichever is greater;

(ii) The weld is allowed to cool slowly to room temperature; and

(iii) The required preheat is resumed before welding is continued.

(16) When attaching welding carbon steel non-pressure parts to steel pressure parts and the throat thickness of the fillet or partial or full penetration weld is $\frac{1}{2}$ in. or less, postheat treatment of the fillet weld is not required for Class I and II piping if preheat to a minimum temperature of 175 °F is applied when the thickness of the pressure part exceeds $\frac{3}{4}$ in.

(17) For Class I-L and II-L piping systems, relief from postweld heat treatment may not be dependent upon wall thickness. See also §§ 56.50-105(a)(3) and 56.50-105(b)(3) of this chapter.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGFR 69-127, 35 FR 9980, June 17, 1970; CGD 72-104R, 37 FR 14234, July 18, 1972; CGD 72-206R, 38 FR 17229, June 29, 1973; CGD 73-254, 40 FR 40166, Sept. 2, 1975; CGD 77-140, 54 FR 40615, Oct. 2, 1989]

§ 56.85-15 Postheat treatment.

(a) Where pressure retaining components having different thicknesses are welded together as is often the case when making branch connections, the preheat and postheat treatment requirements of Table 56.85-10 apply to the thicker of the components being joined. Postweld heat treatment is required for Classes I, I-L, II-L, and systems. It is not required for Class II piping. Refer to § 56.50-105(a)(3) for exceptions in Classes I-L and II-L systems and to paragraph (b) of this section for Class I systems.

(b) All butt welded joints in Class I piping shall be postweld heated as required by Table 56.85-10. The following exceptions are permitted:

(1) High pressure salt water piping systems used in tank cleaning operations; and,

(2) Gas supply piping of carbon or carbon molybdenum steel used in gas turbines.

(c) All complicated connections including manifolds shall be stress-re-

46 CFR Ch. I (10-1-07 Edition)

lieved in a furnace as a whole as required by Table 56.85-10 before being taken aboard ship for installation.

(d) (*Reproduces 131.3.2.*) The postheat treatment method selected for parts of an assembly shall not adversely affect other components. Heating a fabricated assembly as a complete unit is usually desirable; however, the size or shape of the unit or the adverse effect of a desired heat treatment on one or more components where dissimilar materials are involved, may dictate alternative procedures such as heating a section of the assembly before the attachment of others, or local circumferential band heating of welded joints in accordance with § 56.85-15(j)(3) and note (12) of Table 56.85-10.

(e) (*Reproduces 131.3.3.*) Postheat treatment of welded joints between dissimilar metals having different postheat requirements shall be that established in the qualified welding procedure.

(f)-(h) [Reserved]

(i) (*Reproduces 131.3.4.*) For those materials listed under P-No. 1, when the wall thickness of the thicker of the two abutting ends, after end preparation, is less than three-fourths inch, the weld need not be postheat treated. In all cases, where the nominal wall thickness is $\frac{3}{4}$ in. or less, postheat treatment is not required.

(j) (1)-(2) [Reserved]

(3) In local postheat treatment the entire band must be brought up to uniform specified temperature over the complete circumference of the pipe section, with a gradual diminishing of the temperature outward from the edges of the band.

[CGFR 68-82, 33 FR 18843, Dec. 18, 1968, as amended by CGD 72-206R, 38 FR 17229, June 29, 1973; CGD 73-254, 40 FR 40167, Sept. 2, 1975]

Subpart 56.90—Assembly

§ 56.90-1 General.

(a) The assembly of the various piping components, whether done in a shop or as field erection, shall be done so that the completely erected piping conforms with the requirements of the regulations in this subchapter and with the specified requirements of the engineering design.